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(FILE 'HOME' ENTERED AT 16:14:19 ON 08 AUG 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:14:44 ON 08 AUG 2002

SEA AMINOTRANSFERAS? AND SUBTILI?

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L1 QUE AMINOTRANSFERAS? AND SUBTILI?

FILE 'GENBANK, USPATFULL, CAPLUS, EMBASE, SCISEARCH, MEDLINE, BIOSIS, BIOTECHNO, ESBIOBASE, LIFESCI, DRUGU, PASCAL' ENTERED AT 16:17:06 ON 08 AUG 2002

L2 783 S AMINOTRANSFERAS? AND SUBTILI?
L3 593 DUP REM L2 (190 DUPLICATES REMOVED)
L4 138 S L3 AND BIOTI?
L5 63 S L3 AND (DIAMINOPELARGON? OR ADENOSYLMETHIONI?)
L6 63 FOCUS L5 1-

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NEWS 4	Apr 09	ZDB will be removed from STN
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NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
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NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
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=> index bioscience medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,

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       CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
       DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
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66 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s aminotransferas? and subtili?
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          4   FILE AQUASCI
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          5   FILE BIOTECHABS
          5   FILE BIOTECHDS
         34   FILE BIOTECHNO
          1   FILE CABA
         86   FILE CAPLUS
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          8   FILE DDFU
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         11   FILE DRUGU
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         55   FILE EMBASE
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          1   FILE FEDRIP
  35 FILES SEARCHED...
          1   FILE FSTA
        233   FILE GENBANK
          1   FILE IFIPAT
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         47   FILE MEDLINE
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          9   FILE PASCAL
          1   FILE PROMT
         52   FILE SCISEARCH
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  35 FILES HAVE ONE OR MORE ANSWERS,   66 FILES SEARCHED IN STNINDEX

L1   QUE AMINOTRANSFERAS? AND SUBTILI?

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F2          180   USPATFULL
F3           86   CAPLUS
F4           55   EMBASE
F5           52   SCISEARCH
F6           47   MEDLINE
F7           44   BIOSIS
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F9           18   ESBIOBASE
F10          14   LIFESCI
F11          11   DRUGU
F12           9   PASCAL
F13           8   DDFU
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F14             7   DDFB
F15             7   DRUGB
F16             7   JICST-EPLUS
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F18             5   BIOTECHABS
F19             5   BIOTECHDS
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F23             2   WPINDEX
F24             1   AGRICOLA
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F28             1   CROPU
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F30             1   FEDRIP
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F32             1   IFIPAT
F33             1   NTIS
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F35             1   NLDB


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=> s aminotransferas? and subtili?
L2 783 AMINOTRANSFERAS? AND SUBTILI?

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ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3 593 DUP REM L2 (190 DUPLICATES REMOVED)

=> s l3 and bioti?
L4 138 L3 AND BIOTI?

<------User Break------>
u
SEARCH ENDED BY USER

=> s l3 and (diaminopelargon? or adenosylmethioni?)
L5 63 L3 AND (DIAMINOPELARGON? OR ADENOSYLMETHIONI?)

=> focus l5
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PROCESSING COMPLETED FOR L5
ANSWERS FROM NON FOCUS FILES PUT AT END OF ANSWER SET.
L6 63 FOCUS L5 1-

=> d ti l5 1-63

L5 ANSWER 1 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Genetic analysis of biotin operon in Bacillus **subtilis** natto OK2
TITLE (TI): Direct Submission

L5 ANSWER 2 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete genomic sequence of Corynebacterium glutamicum ATCC 13032
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TITLE (TI): Complete genome sequence of Clostridium perfringens, an anaerobic flesh-eater
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TITLE (TI): Complete genome sequence of Clostridium perfringens, an anaerobic flesh-eater
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TITLE (TI): Comparative genomics of Listeria species
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TITLE (TI): Comparative genomics of Listeria species
TITLE (TI): Direct Submission

L5 ANSWER 13 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Genome sequence of Yersinia pestis, the causative agent of plague
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TITLE (TI): Genome sequence of Yersinia pestis, the causative agent of plague
TITLE (TI): Direct Submission

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TITLE (TI): Genome sequence of Yersinia pestis, the causative agent of plague
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TITLE (TI): Genome sequence of Yersinia pestis, the causative agent of plague
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TITLE (TI): Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Clostridium acetobutylicum
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TITLE (TI): Massive gene decay in the leprosy bacillus
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TITLE (TI): The genome sequence of the thermoacidophilic scavenger Thermoplasma acidophilum
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TITLE (TI): Reidentification of facultatively alkaliphilic Bacillus sp. C-125 to Bacillus halodurans
TITLE (TI): Genetic analysis of the chromosome of alkaliphilic Bacillus halodurans C-125
TITLE (TI): An improved physical and genetic map of the genome of alkaliphilic Bacillus sp. C-125
TITLE (TI): Replication origin region of the chromosome of alkaliphilic Bacillus halodurans C-125
TITLE (TI): Sequence analysis of a 32-kb region including the major ribosomal protein gene clusters from alkaliphilic Bacillus sp. strain C-125
TITLE (TI): Genome analysis of facultatively alkalihilic Bacillus halodurans C-125
TITLE (TI): Sequencing of three lambda clones from the genome of alkaliphilic Bacillus sp. strain C-125
TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus strain from an industrial point of view
TITLE (TI): Characterization and comparative study of the rrn operons of alkaliphilic Bacillus halodurans C-125
TITLE (TI): Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus **subtilis**
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TITLE (TI): Reidentification of facultatively alkaliphilic Bacillus sp. C-125 to Bacillus halodurans
TITLE (TI): Genetic analysis of the chromosome of alkaliphilic Bacillus halodurans C-125
TITLE (TI): An improved physical and genetic map of the genome of alkaliphilic Bacillus sp. C-125
TITLE (TI): Replication origin region of the chromosome of alkaliphilic Bacillus halodurans C-125
TITLE (TI): Sequence analysis of a 32-kb region including the major ribosomal protein gene clusters from alkaliphilic Bacillus sp. strain C-125
TITLE (TI): Genome analysis of facultatively alkalihilic Bacillus halodurans C-125
TITLE (TI): Sequencing of three lambda clones from the genome of alkaliphilic Bacillus sp. strain C-125

TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus strain from an industrial point of view
TITLE (TI): Characterization and comparative study of the rrn operons of alkaliphilic Bacillus halodurans C-125
TITLE (TI): Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus **subtilis**
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TITLE (TI): Reidentification of facultatively alkaliphilic Bacillus sp. C-125 to Bacillus halodurans
TITLE (TI): Genetic analysis of the chromosome of alkaliphilic Bacillus halodurans C-125
TITLE (TI): An improved physical and genetic map of the genome of alkaliphilic Bacillus sp. C-125
TITLE (TI): Replication origin region of the chromosome of alkaliphilic Bacillus halodurans C-125
TITLE (TI): Sequence analysis of a 32-kb region including the major ribosomal protein gene clusters from alkaliphilic Bacillus sp. strain C-125
TITLE (TI): Genome analysis of facultatively alkalihilic Bacillus halodurans C-125
TITLE (TI): Sequencing of three lambda clones from the genome of alkaliphilic Bacillus sp. strain C-125
TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus strain from an industrial point of view
TITLE (TI): Characterization and comparative study of the rrn operons of alkaliphilic Bacillus halodurans C-125
TITLE (TI): Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus **subtilis**
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TITLE (TI): Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491
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TITLE (TI): The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hypervariable sequences
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TITLE (TI): A set of ordered cosmids and a detailed genetic and physical map for the 8 Mb Streptomyces coelicolor A3(2) chromosome
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TITLE (TI): The complete genome sequence of the gram-positive bacterium Bacillus **subtilis**
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TITLE (TI): The complete genome sequence of the gram-positive bacterium Bacillus **subtilis**
TITLE (TI): Direct Submission

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TITLE (TI): The complete genome sequence of the gram-positive bacterium Bacillus **subtilis**
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TITLE (TI): The complete genome sequence of the gram-positive bacterium Bacillus **subtilis**
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TITLE (TI): The complete genome sequence of the gram-positive bacterium Bacillus **subtilis**
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TITLE (TI): Nucleotide sequence of the Bacillus **subtilis** ribosomal RNA operon, rrnB
TITLE (TI): Cloning and nucleotide sequencing of genes for three small, acid-soluble proteins from Bacillus **subtilis** spores
TITLE (TI): Nucleotide sequence and organization of dnaB gene and neighbouring genes on the Bacillus **subtilis** chromosome
TITLE (TI): Cloning and nucleotide sequence of phoP, the regulatory gene for alkaline phosphatase and phosphodiesterase in Bacillus **subtilis**
TITLE (TI): Nucleotide sequence of the Bacillus **subtilis** phoR gene
TITLE (TI): Cloning and analysis of the Bacillus **subtilis** rpsD gene, encoding ribosomal protein S4
TITLE (TI): Catabolite repression of alpha-amylase gene expression in Bacillus **subtilis** involves a trans-acting gene product homologous to the Escherichia coli lacI and galR repressors

TITLE (TI): Analysis of the Bacillus **subtilis** tyrS gene: conservation of a regulatory sequence in multiple tRNA synthetase genes

TITLE (TI): Co-ordinate expression of the two threonyl-tRNA synthetase genes in Bacillus **subtilis**: control by transcriptional antitermination involving a conserved regulatory sequence

TITLE (TI): Identification of genes involved in utilization of acetate and acetoin in Bacillus **subtilis**

TITLE (TI): Regulation of the Bacillus **subtilis** acetate kinase gene by CcpA

TITLE (TI): Glycogen in Bacillus **subtilis**: molecular characterization of an operon encoding enzymes involved in glycogen biosynthesis and degradation

TITLE (TI): Identification of two distinct Bacillus **subtilis** citrate synthase genes

TITLE (TI): A Bacillus **subtilis** spore coat polypeptide gene, cotS

TITLE (TI): Identical amino acid sequence of the aroA(G) gene products of Bacillus **subtilis** 168 and B. **subtilis** Marburg strain

TITLE (TI): Structural organization of a Bacillus **subtilis** operon encoding menaquinone biosynthetic enzymes

TITLE (TI): A Bacillus **subtilis** malate dehydrogenase gene

TITLE (TI): Bacillus **subtilis** operon under the dual control of the general stress transcription factor sigma B and the sporulation transcription factor sigma H

TITLE (TI): Cloning, sequencing, and characterization of the Bacillus **subtilis** biotin biosynthetic operon

TITLE (TI): Cloning and characterization of the metE gene encoding S-**adenosylmethionine** synthetase from Bacillus **subtilis**

TITLE (TI): Three transport systems for the osmoprotectant glycine betaine operate in Bacillus **subtilis**: characterization of OpuD

TITLE (TI): Sequencing and functional annotation of the Bacillus **subtilis** genes in the 200 kb rrnB-dnaB region

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TITLE (TI): Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence

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TITLE (TI): Organization and nucleotide sequence of a new ribosomal operon in Escherichia coli containing the genes for ribosomal protein S2 and elongation factor Ts

TITLE (TI): The pyruvate dehydrogenase complex of Escherichia coli K12. Nucleotide sequence encoding the pyruvate dehydrogenase component

TITLE (TI): The pyruvate dehydrogenase complex of Escherichia coli K12. Nucleotide sequence encoding the dihydrolipoamide acetyltransferase component

TITLE (TI): Nucleotide sequence of the lipoamide dehydrogenase gene of Escherichia coli K12

TITLE (TI): Regulation of expression and nucleotide sequence of the Escherichia coli dapD gene

TITLE (TI): The nucleotide sequences of the ponA and ponB genes encoding penicillin-binding protein 1A and 1B of Escherichia coli K12

TITLE (TI): Protein fusions of beta-galactosidase to the

ferrichrome-iron receptor of Escherichia coli K-12

TITLE (TI): Glutamyl-tRNA synthetase of Escherichia coli. Isolation and primary structure of the gltX gene and homology with other aminoacyl-tRNA synthetases

TITLE (TI): Iron hydroxamate transport of Escherichia coli: nucleotide sequence of the fhuB gene and identification of the protein

TITLE (TI): Transcription control of the aroP gene in Escherichia coli K-12: analysis of operator mutants

TITLE (TI): Processing of the initiation methionine from proteins: properties of the Escherichia coli methionine aminopeptidase and its gene structure

TITLE (TI): fhuC and fhuD genes for iron (III)-ferrichrome transport into Escherichia coli K-12

TITLE (TI): The speEspeD operon of Escherichia coli. Formation and processing of a proenzyme form of S-**adenosylmethionine** decarboxylase

TITLE (TI): Complementary DNA and derived amino acid sequence of the precursor of one of the three protein components of the inter-alpha-trypsin inhibitor complex

TITLE (TI): Nucleotide sequence and organization of copper resistance genes from Pseudomonas syringae pv. tomato

TITLE (TI): Nucleotide sequence of the gene encoding the GMP reductase of Escherichia coli K12

TITLE (TI): Characterization of the cyn operon in Escherichia coli K12

TITLE (TI): Sequence analysis and regulation of the htrA gene of Escherichia coli: a sigma 32-independent mechanism of heat-inducible transcription

TITLE (TI): Genetics and sequence analysis of the pcnB locus, an Escherichia coli gene involved in plasmid copy number control

TITLE (TI): Spermidine biosynthesis in Escherichia coli: promoter and termination regions of the speED operon

TITLE (TI): Signalling proteins in enterobacterial AmpC beta-lactamase regulation

TITLE (TI): Characterization of a leuA gene and an ARS element from Mucor circinelloides

TITLE (TI): Nucleotide sequence of the aroP gene encoding the general aromatic amino acid transport protein of Escherichia coli K-12: homology with yeast transport proteins

TITLE (TI): Molecular characterization of the nodulation gene, nodT, from two biovars of Rhizobium leguminosarum

TITLE (TI): Identification and characterization of a new Escherichia coli gene that is a dosage-dependent suppressor of a dnaK deletion mutation

TITLE (TI): Structure and regulation of the gene for dGTP triphosphohydrolase from Escherichia coli

TITLE (TI): Products of three accessory genes, pilB, pilC, and pilD, are required for biogenesis of Pseudomonas aeruginosa pili

TITLE (TI): Levanase operon of Bacillus **subtilis** includes a fructose-specific phosphotransferase system regulating the expression of the operon

TITLE (TI): Nucleotide sequence of a gene, hpt, for hypoxanthine phosphoribosyltransferase from Vibrio harveyi

TITLE (TI): Nucleotide sequence of Rhizobium loti nodI

TITLE (TI): Nucleotide sequence and functions of mrk determinants necessary for expression of type 3 fimbriae in Klebsiella pneumoniae

TITLE (TI): Structural genes of glutamate 1-semialdehyde **aminotransferase** for porphyrin synthesis in a cyanobacterium and Escherichia coli

TITLE (TI): Requirement of the RNA helicase-like protein PRP22 for

release of messenger RNA from spliceosomes
TITLE (TI): Gene sequences and comparison of the fimbrial subunits representative of Bacteroides nodosus serotypes A to I: class I and class II strains
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TITLE (TI): Nucleotide and deduced amino acid sequence of the recA gene of Vibrio cholerae
TITLE (TI): Systematic sequencing of the Escherichia coli genome: analysis of the 0-2.4 min region
TITLE (TI): Cloning, sequence analysis, and overexpression of Escherichia coli folK, the gene coding for 7,8-dihydro-6-hydroxymethylpterin-pyrophosphokinase
TITLE (TI): Identification and characterization of the smbA gene, a suppressor of the mukB null mutant of Escherichia coli
TITLE (TI): Characterization of the gcd gene from Escherichia coli K-12 W3110 and regulation of its expression
TITLE (TI): The genes of the glutamine synthetase adenylylation cascade are not regulated by nitrogen in Escherichia coli
TITLE (TI): Systematic sequencing of the Escherichia coli genome: analysis of the 2.4-4.1 min (110,917-193,643 bp) region
TITLE (TI): The 2'-5' RNA ligase of Escherichia coli. Purification, cloning, and genomic disruption
TITLE (TI): Direct Submission

L5 ANSWER 40 OF 63 USPATFULL
TI Full-length human cDNAs encoding potentially secreted proteins

L5 ANSWER 41 OF 63 USPATFULL
TI OVERCOMING DAPA **AMINOTRANSFERASE** BOTTLENECKS IN BIOTIN VITAMERS BIOSYNTHESIS

L5 ANSWER 42 OF 63 USPATFULL
TI DNA fragments containing biotin biosynthetase gene and use of the same

L5 ANSWER 43 OF 63 USPATFULL
TI Nucleic acids, proteins, and antibodies

L5 ANSWER 44 OF 63 USPATFULL
TI Nucleic acids, proteins and antibodies

L5 ANSWER 45 OF 63 USPATFULL
TI Nucleic acids, proteins and antibodies

L5 ANSWER 46 OF 63 USPATFULL
TI 32253 transferase family members and uses therefor

L5 ANSWER 47 OF 63 USPATFULL
TI Expressed sequences of arabidopsis thaliana

L5 ANSWER 48 OF 63 USPATFULL
TI Expressed sequences of arabidopsis thaliana

L5 ANSWER 49 OF 63 USPATFULL
TI Computer readable genomic sequence of Haemophilus influenzae Rd, fragments thereof, and uses thereof

L5 ANSWER 50 OF 63 USPATFULL

TI Expressed sequences of arabidopsis thaliana

L5 ANSWER 51 OF 63 USPATFULL
TI Methods for identifying drug targets based on genomic sequence data

L5 ANSWER 52 OF 63 USPATFULL
TI Method to produce biotin

L5 ANSWER 53 OF 63 USPATFULL
TI Recombinant narbonolide polyketide synthase

L5 ANSWER 54 OF 63 USPATFULL
TI Biotechnological method of producing biotin

L5 ANSWER 55 OF 63 USPATFULL
TI Transgenic plants having increased biotin content

L5 ANSWER 56 OF 63 USPATFULL
TI Enhanced biotin biosynthesis in plant tissue

L5 ANSWER 57 OF 63 USPATFULL
TI Method to produce biotin

L5 ANSWER 58 OF 63 CAPLUS COPYRIGHT 2002 ACS
TI Biochemical and molecular characterization of taurine:pyruvate **aminotransferase** from the anaerobe Bilophila wadsworthia

L5 ANSWER 59 OF 63 CAPLUS COPYRIGHT 2002 ACS
TI Overcoming DAPA **aminotransferase** bottlenecks in biotin vitamers

L5 ANSWER 60 OF 63 CAPLUS COPYRIGHT 2002 ACS
TI Use of the biotin biosynthesis operon in Bacillus **subtilis** for biotin fermentative preparation

L5 ANSWER 61 OF 63 SCISEARCH COPYRIGHT 2002 ISI (R)
TI Structural organization of microcystin biosynthesis in Microcystis aeruginosa PCC7806: an integrated peptide-polyketide synthetase system

L5 ANSWER 62 OF 63 MEDLINE
TI Studies of the mode of action of amiclenomycin.

L5 ANSWER 63 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Crystal structure of **diaminopelargonic** acid synthase: Evolutionary relationships between pyridoxal-5'-phosphate-dependent enzymes.

=> d l5 41 42 54 57 59 60 ibib abs

L5 ANSWER 41 OF 63 USPATFULL

ACCESSION NUMBER:	2002:185643 USPATFULL
TITLE:	OVERCOMING DAPA **AMINOTRANSFERASE** BOTTLENECKS IN BIOTIN VITAMERS BIOSYNTHESIS
INVENTOR(S):	VAN ARSDELL, SCOTT W., LEXINGTON, MA, UNITED STATES YOCUM, R. ROGERS, LEXINGTON, MA, UNITED STATES PERKINS, JOHN B., READING, MA, UNITED STATES PERO, JANICE G., LEXINGTON, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002098556	A1	20020725
APPLICATION INFO.:	US 1997-914332	A1	19970714 (8)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	MARK E. WADDELL, ESQ., BRYAN CAVE LLP, 245 PARK AVENUE,

NEW YORK, NY, 10167-0034
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 951
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method is disclosed for the increased production of biotin and the biotin precursor dethiobiotin using a bacterium that produces a lysine-utilizing DAPA **aminotransferase**. This method involves the use of a bacterium that is either grown in the presence of lysine or deregulated for lysine biosynthesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 42 OF 63 USPATFULL
ACCESSION NUMBER: 2002:152439 USPATFULL
TITLE: DNA fragments containing biotin biosynthetase gene and use of the same
INVENTOR(S): Mukumoto, Fujio, Toyonaka, JAPAN
Nishio, Shoichi, Toyonaka, JAPAN
Akimaru, Jiro, Nishinomiya, JAPAN
Mitsuda, Satoshi, Takarazuka, JAPAN
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Osaka, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6410293	B1	20020625	
	WO 9839452		19980911	
APPLICATION INFO.:	US 1998-180109		19981203	(9)
	WO 1998-JP858		19980302	
			19981203	PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-47838	19970303

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Nashed, Nashaat T.
ASSISTANT EXAMINER: Fronda, Christian L.
LEGAL REPRESENTATIVE: Birch, Stewart, Kolasch & Birch, LLP
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 3567
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A DNA fragment containing a gene concerned in biotin biosynthesis and derived from a microorganism belonging to the genus Sphingomonas, a plasmid containing said DNA fragment, and a biotin-producing transformant containing said plasmid. There is provided a technique for utilizing a gene concerned in biotin biosynthesis and derived from a microorganism belonging to the genus Sphingomonas, for breeding of a biotin-producing micro-organism by genetic engineering.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 54 OF 63 USPATFULL
ACCESSION NUMBER: 2000:84053 USPATFULL
TITLE: Biotechnological method of producing biotin
INVENTOR(S): Birch, Olwen, Naters, Switzerland
Brass, Johann, Ausserberg, Switzerland
Fuhrmann, Martin, Visp, Switzerland
Shaw, Nicholas, Visp, Switzerland
PATENT ASSIGNEE(S): Lonza A.G., Basel, Switzerland (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6083712		20000704	
	WO 9408023		19940414	
APPLICATION INFO.:	US 1995-411768		19950608	(8)
	WO 1993-EP2688		19931001	
			19950608	PCT 371 date
			19950608	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1992-3124	19921002
	CH 1993-2134	19930715

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Carlson, Karen Cochrane
LEGAL REPRESENTATIVE: Baker & Botts, L.L.P.
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)
LINE COUNT: 2589
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In DNA fragments and plasmids comprising the bioB, bioF, bioC, bioD and bioA genes responsible for biosynthesis of biotin, or their functionally equivalent genetic variants and mutants from enteric bacteria, the genes are arranged in a transcription unit. These DNA fragments and plasmids can be contained in microorganisms which can be used to produce biotin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 57 OF 63 USPATFULL
ACCESSION NUMBER: 95:78092 USPATFULL
TITLE: Method to produce biotin
INVENTOR(S): Campbell, John W., Fort Collins, CO, United States
Cheung, Alex, Fort Collins, CO, United States
Eddy, Christina K., Loveland, CO, United States
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5445952		19950829	
APPLICATION INFO.:	US 1993-7559		19930122	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Kim, Hyosuk
LEGAL REPRESENTATIVE: Whyte Hirschboeck Dudek
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 2
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 1342
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method to enhance a cell's ability to produce biotin precursors and/or biotin by deregulating at least one enzyme of the fatty acid biosynthetic pathway in the cell, preferably an enzyme that carries out an early step in the pathway. Preferably, the biotin biosynthetic pathway is also deregulated. The invention includes biotin-producing cells in which at least one enzyme of the fatty acid biosynthetic pathway is deregulated, preferably by transforming the cells with nucleic acid sequences encoding at least one of those enzymes; methods to produce such cells; and use of such cells to produce biotin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 59 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:64626 CAPLUS
DOCUMENT NUMBER: 130:123888
TITLE: Overcoming DAPA **aminotransferase** bottlenecks in biotin vitamers
INVENTOR(S): Perkins, John B.; Pero, Janice G.; Van Arsdell, Scott W.; Yocum, Rogers R.
PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 892066	A1	19990120	EP 1998-112825	19980710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002098556	A1	20020725	US 1997-914332	19970714
CN 1210149	A	19990310	CN 1998-103370	19980713
BR 9802569	A	20000321	BR 1998-2569	19980713
JP 11127887	A2	19990518	JP 1998-198191	19980714

PRIORITY APPLN. INFO.: US 1997-914332 A 19970714
AB A process is disclosed for the increased prodn. of biotin and the biotin precursor dethiobiotin using a bacterium that produces a lysine-utilizing DAPA **aminotransferase**. The process involves the use of a bacterium that is either grown in the presence of lysine or deregulated for lysine biosynthesis.
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 60 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:522736 CAPLUS
DOCUMENT NUMBER: 122:257993
TITLE: Use of the biotin biosynthesis operon in Bacillus **subtilis** for biotin fermentative preparation
INVENTOR(S): Bower, Stanley Grant; Perkins, John B.; Pero, Janice G.; Yocum, R. Rogers
PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.
SOURCE: Eur. Pat. Appl., 75 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 635572	A2	19950125	EP 1994-108998	19940613
EP 635572	A3	19950308		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
CN 1106066	A	19950802	CN 1994-107234	19940624
JP 07231789	A2	19950905	JP 1994-143672	19940624
US 6057136	A	20000502	US 1996-676818	19960708
US 6303377	B1	20011016	US 1999-407549	19990928

PRIORITY APPLN. INFO.: US 1993-84709 A 19930625
US 1994-239430 A 19940506
US 1996-676817 A3 19960708
AB The present invention is directed to DNA sequences of genes that encode a biotin biosynthetic enzyme of Bacillus **subtilis** or of a closely related species thereof, vectors comprising such DNA sequences, cells comprising such DNA sequences, and vectors and a process for the prodn. of

biotin by such cells. Complementation expts. with Escherichia coli, gene mutant in bioA, bioB, bioC, bioD, bioF, and bioH, and further characterization by marker-rescue and complementation expts with known B. **subtilis** biotin mutants in bioA, bioB, and bioF showed that in B. **subtilis** all 6 of these biotin biosynthetic genes are contained on a single DNA fragment of .apprx.8 kb. A detailed restriction map of this fragment was obtained, and an anal. of overlapping clones, deletion mutants, subclones, and their resp. nucleotide sequences allowed the genes to be located in the order bioW, bioA, bioF, bioD, bioB, bioI, and ORF2. The bioI gene is a newly identified gene which codes for a cytochrome P 450-like enzyme. A strategy is presented to overexpress the entire B. **subtilis** bio operon (which, when engineered with a strong promoter, is unexpectedly toxic to E. coli) by cloning 2 bio operon fragments sep., combining them in vitro, and transforming the host organism with the resulting ligated construction. The regulatory regions of the bio operon (promoter, terminator, etc.) were mutated for improved biotin biosynthesis. Mutant birA strains with integrated and amplified copies of the wild-type bio operon gave yields up to 2000 .mu.g/L biotin.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	88.88	91.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.24	-1.24

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 2, 2002 (20020802/UP).

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(FILE 'HOME' ENTERED AT 16:14:19 ON 08 AUG 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:14:44 ON 08 AUG 2002

SEA AMINOTRANSFERAS? AND SUBTILI?

1	FILE AGRICOLA
4	FILE AQUASCI
44	FILE BIOSIS
5	FILE BIOTECHABS
5	FILE BIOTECHDS
34	FILE BIOTECHNO
1	FILE CABA
86	FILE CAPLUS
1	FILE CEN
1	FILE CONFSCI
1	FILE CROPU
7	FILE DDFB
8	FILE DDFU
4	FILE DGENE
7	FILE DRUGB
11	FILE DRUGU
1	FILE EMBAL

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                55   FILE EMBASE
                18   FILE ESBIOBASE
                 1   FILE FEDRIP
                 1   FILE FSTA
               233   FILE GENBANK
                 1   FILE IFIPAT
                 7   FILE JICST-EPLUS
                14   FILE LIFESCI
                47   FILE MEDLINE
                 1   FILE NTIS
                 9   FILE PASCAL
                 1   FILE PROMT
                52   FILE SCISEARCH
                 7   FILE TOXCENTER
               180   FILE USPATFULL
                 2   FILE WPIDS
                 2   FILE WPINDEX
                 1   FILE NLDB
L1                QUE AMINOTRANSFERAS? AND SUBTILI?
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     FILE 'GENBANK, USPATFULL, CAPLUS, EMBASE, SCISEARCH, MEDLINE, BIOSIS,
     BIOTECHNO, ESBIOBASE, LIFESCI, DRUGU, PASCAL' ENTERED AT 16:17:06 ON 08
     AUG 2002
L2             783 S AMINOTRANSFERAS? AND SUBTILI?
L3             593 DUP REM L2 (190 DUPLICATES REMOVED)
L4             138 S L3 AND BIOTI?
L5              63 S L3 AND (DIAMINOPELARGON? OR ADENOSYLMETHIONI?)
L6              63 FOCUS L5 1-

     FILE 'STNGUIDE' ENTERED AT 16:29:25 ON 08 AUG 2002

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.18      91.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.24

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 16:31:23 ON 08 AUG 2002
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